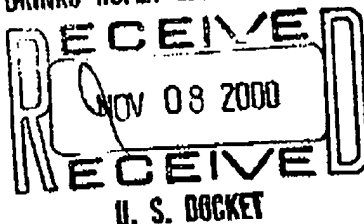


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UNITED STATES PATENT AND TRADEMARK OFFICE
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APPLICATION NUMBER	FILING DATE	GRP ART UNIT	FIL FEE REC'D	ATTY DOCKET NO.	DRAWINGS	TOT CLAIMS	IND CLAIMS
09/657,635	09/06/2000	2631	1248	5050-773	5	38	6

Craig A Summerfield
Brinks Hofer Gilson & Lione
P O Box 10395
Chicago, IL 60610

BRINKS HOFER GILSON & LIONE**FILING RECEIPT**

OC000000005518265

Date Mailed: 10/31/2000

Receipt is acknowledged of this nonprovisional Patent Application. It will be considered in its order and you will be notified as to the results of the examination. Be sure to provide the U.S. APPLICATION NUMBER, FILING DATE, NAME OF APPLICANT, and TITLE OF INVENTION when inquiring about this application. Fees transmitted by check or draft are subject to collection. Please verify the accuracy of the data presented on this receipt. If an error is noted on this Filing Receipt, please write to the Office of Initial Patent Examination's Customer Service Center. Please provide a copy of this Filing Receipt with the changes noted thereon. If you received a "Notice to File Missing Parts" for this application, please submit any corrections to this Filing Receipt with your reply to the Notice. When the PTO processes the reply to the Notice, the PTO will generate another Filing Receipt incorporating the requested corrections (if appropriate).

Applicant(s)

Ismayil M. Guracar, Redwood City, CA ;
Patrick J. Phillips, Sunnyvale, CA ;

Continuing Data as Claimed by Applicant**Foreign Applications**

If Required, Foreign Filing License Granted 10/23/2000

Title

Contrast imaging beam sequences for medical diagnostic ultrasound

Preliminary Class

375

Data entry by : KANNO, MESERET

Team : OIPE

Date: 10/31/2000



LICENSE FOR FOREIGN FILING UNDER
Title 35, United States Code, Section 184
Title 37, Code of Federal Regulations, 5.11 & 5.15

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This license is to be retained by the licensee and may be used at any time on or after the effective date thereof unless it is revoked. This license is automatically transferred to any related applications(s) filed under 36 CFR 1.53(d). This license is not retroactive.

The grant of a license does not in any way lessen the responsibility of a licensee for the security of the subject matter as imposed by any Government contract or the provisions of existing laws relating to espionage and the national security or the export of technical data. Licensees should apprise themselves of current regulations especially with respect to certain countries, of other agencies, particularly the Office of Defense Trade Controls, Department of State (with respect to Arms, Munitions and Implements of War (22 CFR 121-128)); the Office of Export Administration, Department of Commerce (15 CFR 370.10 (j)); the Office of Foreign Assets Control, Department of Treasury (31 CFR Parts 500+) and the Department of Energy.

NOT GRANTED

No license under 35 U.S.C. 184 has been granted at this time, if the phrase "IF REQUIRED, FOREIGN FILING LICENSE GRANTED" DOES NOT appear on this form. Applicant may still petition for a license under 37 CFR 5.12, if a license is desired before the expiration of 6 months from the filing date of the application. If 6 months has lapsed from the filing date of this application and the licensee has not received any indication of a secrecy order under 35 U.S.C. 181, the licensee may foreign file the application pursuant to 37 CFR 5.15 (b).

PLEASE NOTE the following information about the Filing Receipt:

- The articles such as "a," "an" and "the" are not included as the first words in the title of an application. They are considered to be unnecessary to the understanding of the title.
- The words "new," "improved," "improvements in" or "relating to" are not included as first words in the title of an application because a patent application, by nature, is a new idea or improvement.
- The title may be truncated if it consists of more than 600 characters (letters and spaces combined).
- The docket number allows a maximum of 25 characters.
- If your application was submitted under 37 CFR 1.10, your filing date should be the "date in" found on the Express Mail label. If there is a discrepancy, you should submit a request for a corrected Filing Receipt along with a copy of the Express Mail label showing the "date in."
- The title is recorded in sentence case.

Any corrections that may need to be done to your Filing Receipt should be directed to:

Assistant Commissioner for Patents
Office of Initial Patent Examination
Customer Service Center
Washington, DC 20231

JAN 11 2010

Office Action Summary	Application No.	Applicant(s)	
	09/657,635	GURACAR ET AL.	
	Examiner	Art Unit	
	Jaworski Francis J.	3737	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 13 November 2000.
- 2a) ☐ This action is FINAL. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-38 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-38 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- 11) ☐ The proposed drawing correction filed on _____ is: a) ☐ approved b) ☐ disapproved by the Examiner.
If approved, corrected drawings are required in reply to this Office action.
- 12) ☐ The oath or declaration is objected to by the Examiner.

Priority under 35 U.S.C. §§ 119 and 120

- 13) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
* See the attached detailed Office action for a list of the certified copies not received.
- 14) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).
a) ☐ The translation of the foreign language provisional application has been received.
- 15) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.

Attachment(s)

- 1) ☐ Notice of References Cited (PTO-892)
2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3) ☒ Information Disclosure Statement(s) (PTO-1449) Paper No(s) 2.

- 4) ☐ Interview Summary (PTO-413) Paper No(s). _____
5) ☐ Notice of Informal Patent Application (PTO-152)
6) ☐ Other:

Application/Control Number: 09/657,635

Page 2

Art Unit: 3737

Claim Rejections - 35 USC § 101

1. 35 U.S.C. 101 reads as follows:

Whoever invents or discovers any new and useful process, machine, manufacture, or composition of matter, or any new and useful improvement thereof, may obtain a patent therefor, subject to the conditions and requirements of this title.

2. Claims 1-10 are rejected under 35 U.S.C. 101 because the claimed invention is directed to non-statutory subject matter. Applicants are claiming a sequence. The Examiner is interpreting this as the claiming of a format, neither structure nor the method of implementing the format, nor a software-resident on computer-readable medium for effecting a format, but rather the abstraction of a format in and of itself.

Claim Rejections - 35 USC § 103

3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

4. Claims 11 - 33 are rejected under 35 U.S.C. 103(a) as being unpatentable over Clark (US5980458) in view of Poland (US6080107).

The former is directed to interleaved collateral transmissions as per col. 2 line 3 - col. 4 line 5 and/or as supplemented col. 4 line 9 - col. 6 line 8. It would have been obvious in view of the

Application/Control Number: 09/657,635

Page 3

Art Unit: 3737

latter to use the system of the Clark face figure in association with contrast agent imaging (Fig. 1 and col. 11 lines 36-43 and col. 11 lines 55-58 of Poland considered against Clark face figure and aforementioned interleaving teachings.

5. Claims 11-33 are further rejected under 35 U.S.C. 103(a) as being unpatentable over the combined teachings of Hwang (~~US6193662~~) and Averkiou et al (US6186950). The former is directed to high frame rate contrast agent imaging wherein the distinction between the terms 'interleaved' and 'collateral pulses' in relation to scanlines is blurred because both the echo scanlines and intermediates composited from re-sampling and/or interpolation are also referred to as scanlines such that pulses may all serve a collateral function in compositing intermediate scanlines. Additionally, Averkiou et al col. 6 line 52 - col.7 line - 32 is apparently further suggesting that for purposes of perfusion or low velocity flow measurement, high frame rate techniques may be combined with time interleaving and/or additional three-pulse phase inversion processing to diminish motion artifact.

6. Claims 34-38 are rejected under 35 U.S.C. 103(a) as being unpatentable over Averkiou et al (US6186950) or Hwang et al (~~US6228031~~) insofar as the former teaches a method including identifying first signals associated with artifact (col. 3 lines 1-48) with the Examiner arguing that it

Application/Control Number: 09/657,635

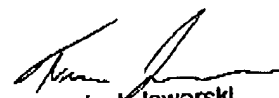
Page 4

Art Unit: 3737

would be inherently obvious for the practitioner to observe same and declare that a motion artifact condition is present, and therefore switching to a mode in which phase inversion is extended to further pulses which replace the simple phase inversion imaging and are a function of these further pulses responsive to the contrast agent, and the latter teaches that upon identification of 'picket fence' artifact due to motion (col. 4 lines 41-44) a filtering substitution can be implemented per col. 4 line 45 - col. 5 line 47..

7. The following art is cited as of interest.. Krishnan et al (US6340348) is cited for its col. 1-2 discussion of LOC imaging. Chiao et al (US6210332) is cited for its col. 9 line 5 - col. 10 line 56 low-flow scanning formats.

8. Any inquiry concerning this communication should be directed to Examiner Francis J. Jaworski at telephone number (703) 308-3061.


Francis J. Jaworski
Primary Examiner

FJJ:fjj

4-12-02



FORM PTO-1449 LIST OF PATENTS AND PUBLICATIONS FOR APPLICANT'S INFORMATION DISCLOSURE STATEMENT (use several sheets if necessary)	SERIAL NO.	CASE NO.
	09/657,635	5050-773
	FILING DATE September 6, 2000	GROUP ART UNIT unassigned
APPLICANT(S): Ismayil M. Guracar et al.		

REFERENCE DESIGNATION U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS/ SUBCLASS	FILING DATE
<i>dp</i>	A1	5,632,277	05/27/97	Chapman et al. <i>Chapman et al</i>		
	A2	5,675,554	10/07/97	Cole et al.		
<i>dp</i>	A3	5,951,478	09/14/99	Hwang et al.		
	A4	6,095,980	08/01/00	Burns et al.		
	A5					
	A6					
	A7					
	A8					
	A9					
	A10					
	A11					
	A12					
	A13					

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FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS/ SUBCLASS	TRANSLATION YES NO
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EXAMINER INITIAL	OTHER ART (Including Author, Title, Date, Pertinent Pages, etc.)					
<i>dp</i>	A14	Johan Kirkhorn et al., Improved Ultrasound Contrast Detection Combining Harmonic Power Doppler with a Release-Burst; 1999 IEEE Ultrasonics Symposium; pp. 1697-1700;				
	A15					
	A16					

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EXAMINER <i>dp</i>	DATE CONSIDERED 4-12-02
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EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Rev. Oct. 97

F:\COMMON\CAS\5050 ACUSON\IDS\5050-773 Form PTO 1449.doc

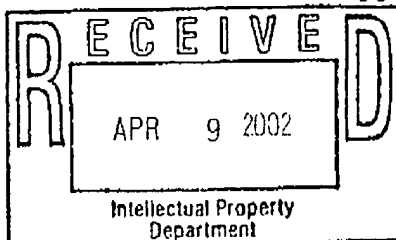


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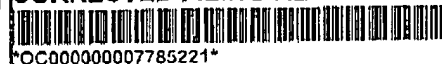
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APPLICATION NUMBER	FILING DATE	GRP ART UNIT	FIL FEE REC'D	ATTY. DOCKET NO	DRAWINGS	TOT CLAIMS	IND CLAIMS
09/657,635	09/06/2000	3737	1248	2000P82261 US	5	38	6

762
Elsa Keller
SIEMENS CORPORATION
Intellectual Property Department
186 Wood Avenue South
Iselin, NJ 08830



CONFIRMATION NO. 1723
CORRECTED FILING RECEIPT



OC00000007785221

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Receipt is acknowledged of this nonprovisional Patent Application. It will be considered in its order and you will be notified as to the results of the examination. Be sure to provide the U.S. APPLICATION NUMBER, FILING DATE, NAME OF APPLICANT, and TITLE OF INVENTION when inquiring about this application. Fees transmitted by check or draft are subject to collection. Please verify the accuracy of the data presented on this receipt. If an error is noted on this Filing Receipt, please write to the Office of Initial Patent Examination's Customer Service Center. Please provide a copy of this Filing Receipt with the changes noted thereon. If you received a "Notice to File Missing Parts" for this application, please submit any corrections to this Filing Receipt with your reply to the Notice. When the USPTO processes the reply to the Notice, the USPTO will generate another Filing Receipt incorporating the requested corrections (if appropriate).

Applicant(s)

Ismayil M. Guracar, Redwood City, CA;
Patrick J. Phillips, Sunnyvale, CA;

Domestic Priority data as claimed by applicant

Foreign Applications

If Required, Foreign Filing License Granted 10/23/2000

Projected Publication Date: Not Applicable, filed prior to November 29, 2000

Non-Publication Request: No

Early Publication Request: No

Title

Contrast imaging beam sequences for medical diagnostic ultrasound

Preliminary Class

600

APR 18 2002
TELECOMMUNICATIONS
DIVISION

LICENSE FOR FOREIGN FILING UNDER
Title 35, United States Code, Section 184
Title 37, Code of Federal Regulations, 5.11 & 5.15

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NOT GRANTED

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TRANSMITTAL LETTER			Case No. 2000P82261 US
Serial No. 09/657,635	Filing Date September 6, 2000	Examiner	Group Art Unit 2631
Inventor(s) Ismayil M. Guracar et al.			
Title of Invention CONTRAST IMAGING BEAM SEQUENCES FOR MEDICAL DIAGNOSTIC ULTRASOUND			

TO THE COMMISSIONER FOR PATENTS

Transmitted herewith is Request For Corrected Filing Receipt; copy of Filing Receipt; Associate Power of Attorney and Change of Correspondence Address and return post card.

- ☐ Small entity status of this application under 37 CFR § 1.27 has been established by verified statement previously submitted.
- ☐ A verified statement to establish small entity status under 37 CFR §§ 1.9 and 1.27 is enclosed.
- ☐ Petition for a _____ month extension of time.
- ☒ No additional fee is required.
- ☐ The fee has been calculated as shown below:

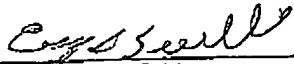
	Claims Remaining After Amendment		Highest No. Previously Paid For	Present Extra
Total		Minus		
Indep.		Minus		
First Presentation of Multiple Dep. Claim				

Small Entity	
Rate	Add'l Fee
x \$9=	
x 42=	
+\$140=	
Total add'l fee	\$

Other Than Small Entity	
Rate	Add'l Fee
x \$18=	
x \$84=	
+\$280=	
Total add'l fee	\$

- ☐ Please charge Deposit Account No. 23-1925 (BRINKS HOFER GILSON & LIONE) in the amount of \$ _____. A duplicate copy of this sheet is enclosed.
- ☐ A check in the amount of \$ _____ to cover the filing fee is enclosed.
- ☒ The Commissioner is hereby authorized to charge payment of any additional filing fees required under 37 CFR § 1.16 and any patent application processing fees under 37 CFR § 1.17 associated with this communication or credit any overpayment to Deposit Account No. 23-1925. A duplicate copy of this sheet is enclosed.
- ☒ I hereby petition under 37 CFR § 1.136(a) for any extension of time required to ensure that this paper is timely filed. Please charge any associated fees which have not otherwise been paid to Deposit Account No. 23-1925. A duplicate copy of this sheet is enclosed.

Respectfully submitted,


 Craig A. Summerfield
 Registration No. 37,947
 Attorney for Applicant(s)

BRINKS HOFER GILSON & LIONE
 P.O. BOX 10395
 CHICAGO, ILLINOIS 60610 - (312) 321-4200

I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail, with sufficient postage, in an envelope addressed to: Commissioner for Patents, Washington, D.C. 20231, on February 13, 2002.

Date: 2/17/02 Signature: 

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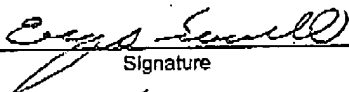
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February 13, 2002

Date of Deposit

Craig A. Summerfield, Reg. No. 37,947

Name of applicant, assignee or
Registered Representative


Signature

1/11/02
Date of Signature

Attorney Docket No.: 2000P82261 US

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:

Ismayil M. Guracar et al.

Serial No.: 09/657,635

Group Art Unit No.: 2631

Filing Date: September 6, 2000

For: CONTRAST IMAGING BEAM SEQUENCES
FOR MEDICAL DIAGNOSTIC
ULTRASOUND

REQUEST FOR CORRECTION OF FILING RECEIPT

Commissioner for Patents
Washington, D.C. 20231

Attention: Application Processing Division
Customer Correction Branch

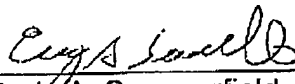
Sir:

Applicants request the issuance of a corrected filing receipt (copy enclosed) for the above-referenced patent application, and in support of this request respectfully requests that the Attorney Docket Number be changed from 5050/773 to:

2000P82261 US.

The Commissioner is hereby authorized to charge any fees required to Deposit
Account No. 23-1925.

Respectfully submitted,



Craig A. Summerfield
Registration No. 37,947
Attorney for Applicant(s)

BRINKS HOFER GILSON & LIONE
P.O. BOX 10395
CHICAGO, ILLINOIS 60610
Tel. (312) 321-4200

Attorney Docket No. 2000P82261 USInventor(s): Ismayil M. Guracar et al.Title: CONTRAST IMAGING BEAM SEQUENCES FOR MEDICAL DIAGNOSTIC ULTRASOUND**ASSOCIATE POWER OF ATTORNEY and
CHANGE OF CORRESPONDENCE ADDRESS**

The specification of the above-identified patent application:



is attached hereto

was filed on September 6, 2000 as application Serial No. 09/657,635

As one of the attorneys of record for the above-identified patent application I hereby appoint the following attorneys to prosecute said patent application and to transact all business in the Patent and Trademark Office connected therewith:

Adel A. Ahmed, Reg. No. 29,606; I. Marc Asperas, Reg. No. 37,274; Stanton C. Braden, Reg. No. 32,556; Alexander J. Burke, Reg. No. 40,425; David D. Chung, Reg. No. 38,409; Joseph S. Codispoti, Reg. No. 31,819; Henry J. Groth, Reg. No. 39,696; Mark H. Jay, Reg. No. 27,507; Brian K. Johnson, Reg. No. 46,808; Stuart P. Kaler, Reg. No. 35,913; Rosa S. Kim, Reg. No. 39,728; Jenny G. Ko, Reg. No. 44,190; Peter A. Luccarelli Jr., Reg. No. 29,750; James M. Markarian, Reg. No. 31,277; Jeffrey P. Morris, Reg. No. 25,307; Pasquale Musacchio, Reg. No. 36,876; John Musone, Reg. No. 44,961; Frank J. Nuzzi, Reg. No. 42,944; Donald B. Paschburg, Reg. No. 33,753; Laura M. Slenzak, Reg. No. 35,363; Daniel J. Staudt, Reg. No. 34,733; Erik C. Swanson, Reg. No. 40,194; Heather S. Vance, Reg. No. 39,033; Michael J. Wallace, Reg. No. 44,486;

Please change the correspondence address for the above-identified patent application and replace it with:

Elsa Keller
SIEMENS CORPORATION
Intellectual Property Department
186 Wood Avenue South
Iselin, New, Jersey 08830
Telephone: (732) 321-3026

The undersigned attorney for Applicants hereby authorizes the U.S. attorneys named herein and on the original Power of Attorney to make decisions and take any action in the Patent and Trademark Office regarding this application without direct communication between the U.S. attorney and the undersigned. In the event of a change in the persons from whom instructions may be taken, the U.S. attorneys named herein will be so notified by the undersigned.

The undersigned attorney for Applicants is empowered to act on behalf of the assignee(s).

I hereby declare that all statements made herein of my own knowledge are true, and that all statements made on information and belief are believed to be true; and further, that these statements are made with the knowledge that willful false statements, and the like so made, are punishable by fine or imprisonment, or both, under Section 1001, Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application or any patent issuing thereon.

Signature

Name: Craig A. Summerfield, Reg. No. 37,947Title: Attorney for Applicants

Date:

2/17/02



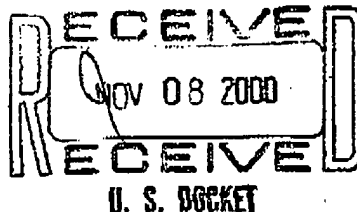
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09/657,635	09/06/2000	2631	1248	5050-773	5	38	6

Craig A Summerfield
Brinks Hofer Gilson & Lione
P O Box 10395
Chicago, IL 60610

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Applicant(s)

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Continuing Data as Claimed by Applicant

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Title

Contrast imaging beam sequences for medical diagnostic ultrasound

Preliminary Class

375

Data entry by : KANNO, MESERET

Team : OIPE

Date: 10/31/2000



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